

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 15, 2002, 03:40:08 ; Search time 196.63 Seconds
(without alignments)
19162.612 Million cell updates/sec

Title: US-09-652-292-1

Perfect score: 4395
Sequence: 1 gagggggctctgccaggcc.....attatttgtaaaaaaaa 4395

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 930621 seqs, 428662619 residues

Total number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_1101.*

1:	/SIDS2/gcgdata/geneseq/geneseq/NA1980.DAT.*
2:	/SIDS2/gcgdata/geneseq/geneseq/NA1981.DAT.*
3:	/SIDS2/gcgdata/geneseq/geneseq/NA1982.DAT.*
4:	/SIDS2/gcgdata/geneseq/geneseq/NA1983.DAT.*
5:	/SIDS2/gcgdata/geneseq/geneseq/NA1984.DAT.*
6:	/SIDS2/gcgdata/geneseq/geneseq/NA1985.DAT.*
7:	/SIDS2/gcgdata/geneseq/geneseq/NA1986.DAT.*
8:	/SIDS2/gcgdata/geneseq/geneseq/NA1987.DAT.*
9:	/SIDS2/gcgdata/geneseq/geneseq/NA1988.DAT.*
10:	/SIDS2/gcgdata/geneseq/geneseq/NA1989.DAT.*
11:	/SIDS2/gcgdata/geneseq/geneseq/NA1990.DAT.*
12:	/SIDS2/gcgdata/geneseq/geneseq/NA1991.DAT.*
13:	/SIDS2/gcgdata/geneseq/geneseq/NA1992.DAT.*
14:	/SIDS2/gcgdata/geneseq/geneseq/NA1993.DAT.*
15:	/SIDS2/gcgdata/geneseq/geneseq/NA1994.DAT.*
16:	/SIDS2/gcgdata/geneseq/geneseq/NA1995.DAT.*
17:	/SIDS2/gcgdata/geneseq/geneseq/NA1996.DAT.*
18:	/SIDS2/gcgdata/geneseq/geneseq/NA1997.DAT.*
19:	/SIDS2/gcgdata/geneseq/geneseq/NA1998.DAT.*
20:	/SIDS2/gcgdata/geneseq/geneseq/NA1999.DAT.*
21:	/SIDS2/gcgdata/geneseq/geneseq/NA2000.DAT.*
22:	/SIDS2/gcgdata/geneseq/geneseq/NA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	317.4	7.2	385	AAH50797	Human tumour assoc
C 2	190.6	4.3	1581	AAH13737	Human cDNA sequenc
C 3	189.2	4.3	241	AAF17845	Human breast cancer
C 4	189.2	4.3	3559	AAH17289	Human cDNA sequenc
C 5	183.4	4.2	16225	AAI62650	Human breast or ov
C 6	183.4	4.2	25423	AAI57656	Human colorectal c
C 7	183.4	4.2	25424	AAI57657	Human colorectal c
C 8	181.8	4.1	700	AAH92304	Human inflammatory
C 9	181.8	4.1	883	AAH03959	Human cDNA clone (
C 10	181.8	4.1	54548	AAZ45596	DNA sequence of th
C 11	181	4.1	161425	AAH02340	Human AKAP10 gene

C 12	181	4.1	162025	22	AAH02339	Human AKAP10 gene
C 13	180.8	4.1	936	22	AAF58252	Oligonucleotide D1
C 14	180.8	4.1	936	22	AAF58254	Oligonucleotide D1
C 15	180.8	4.1	936	22	AAF58257	Oligonucleotide D1
C 16	180.8	4.1	936	22	AAF58259	Oligonucleotide D2
C 17	180.8	4.1	936	22	AAF58262	Oligonucleotide D2
C 18	180.8	4.1	938	22	AAF58255	Oligonucleotide D1
C 19	180.2	4.1	3234	16	AAQ52781	Human thymopolein
C 20	178.4	4.1	35651	22	AAF57595	ATM complete genom
C 21	177.8	4.0	6218	20	AAH58987	Human transcriptio
C 22	177.8	4.0	32174	22	AAI62606	Human breast or ov
C 23	177.8	4.0	32174	22	AAI62904	Human genomic DNA
C 24	177.8	4.0	72604	20	AAZ10752	Genomic sequenced o
C 25	177.4	4.0	2259	21	AAZ74401	Human secreted pro
C 26	177.4	4.0	34488	22	AAF97854	Human neuroblastom
C 27	177.4	4.0	121162	21	AAAC66548	Human kinesin-like
C 28	177.2	4.0	1296	19	AAV29031	Human protein comp
C 29	177.2	4.0	9365	21	AAZ50359	Human CD39-L4 geno
C 30	177.2	4.0	9365	22	AAF63405	Human CD39 like pr
C 31	177.2	4.0	14747	22	AAF63406	Human CD39 like pr
C 32	177.2	4.0	15977	22	AAF63407	Human CD39 like pr
C 33	177.2	4.0	236303	22	AAH11614	Human genomic DNA
C 34	177	4.0	282	18	AAZ62346	Consensus Alu repe
C 35	177	4.0	160552	22	AAZ02697	Human glycosyl sul
C 36	176.8	4.0	759	21	AAZ81744	Human secreted pro
C 37	176.6	4.0	936	22	AAF58252	Oligonucleotide D1
C 38	176.6	4.0	936	22	AAF58254	Oligonucleotide D1
C 39	176.6	4.0	936	22	AAF58257	Oligonucleotide D1
C 40	176.6	4.0	936	22	AAF58259	Oligonucleotide D2
C 41	176.6	4.0	936	22	AAF58262	Oligonucleotide D2
C 42	176.6	4.0	938	22	AAF58255	Oligonucleotide D1
C 43	176.6	4.0	2406	22	AAH18479	Human cDNA sequenc
C 44	176.2	4.0	1376	21	AAZ99845	Human secreted pro
C 45	176.2	4.0	168575	22	AAH21613	Human hypocrerin r

ALIGNMENTS

RESULT 1
AAH50797/c
ID AAH50797 standard; cDNA: 385 BP.
XX AAH50797;
XX
XX
XX 23-AUG-2001 (first entry)
XX Human tumour associated cDNA #126.
XX
XX Human; cancer specific gene expression; gene therapy;
XX age related differential expression; ss.
XX Homo sapiens.
XX
XX WO200136685-A2.
XX
XX 25-MAY-2001.
XX
XX 17-NOV-2000; 2000WO-US31809.
XX
XX 17-NOV-1999; 99US-0166056.
XX 17-NOV-1999; 99US-0166106.
XX (NYXI-) NYXIS NEURO THERAPIES INC.
XX
XX Kroes RA, Moskal JR, Yamamoto H;
XX
XX WPI; 2001-355647/37.
XX
XX Novel nucleic acid molecules differentially expressed in brain cancers,
XX useful for ascertaining propensity of cell for malignant phenotype or
XX ascertaining suitability of anti-neoplastic drug candidate -

RESULT	5	
AAI62650		
ID	AAI62650 standard; DNA; 16225 BP.	
XX		
AC	AAI62650;	
XX		
DT	19-OCT-2001 (first entry)	
XX		
DE	Human breast or ovarian antigen genomic DNA SEQ ID NO: 300.	
XX		
KW	Human; breast antigen; ovarian antigen; cancer; metastasis; gene therapy;	
KW	ds.	
XX		
OS	Homo sapiens.	
XX		
PN	WO200155324-A2.	
XX		
PD	02-AUG-2001.	
XX		
PF	17-JAN-2001; 2001WO-US01344.	
XX		
PR	31-JAN-2000; 2000US-0179065.	12-SEP-2000; 2000US-0231968.
PR	04-FEB-2000; 2000US-0180628.	14-SEP-2000; 2000US-0232397.
PR	24-FEB-2000; 2000US-0184664.	PR 14-SEP-2000; 2000US-0232398.
PR	02-MAR-2000; 2000US-0186350.	PR 14-SEP-2000; 2000US-0232399.
PR	16-MAR-2000; 2000US-0189874.	PR 14-SEP-2000; 2000US-0232400.
PR	17-MAR-2000; 2000US-0190076.	PR 14-SEP-2000; 2000US-0232401.
PR	18-APR-2000; 2000US-0198123.	PR 14-SEP-2000; 2000US-0233063.
PR	19-MAY-2000; 2000US-0205515.	PR 14-SEP-2000; 2000US-0233064.
PR	07-JUN-2000; 2000US-0209467.	PR 14-SEP-2000; 2000US-0233065.
PR	28-JUN-2000; 2000US-0214886.	PR 21-SEP-2000; 2000US-0234223.
PR	30-JUN-2000; 2000US-0215135.	PR 21-SEP-2000; 2000US-0234274.
PR	07-JUL-2000; 2000US-0216647.	PR 25-SEP-2000; 2000US-0234997.
PR	11-JUL-2000; 2000US-0216880.	PR 25-SEP-2000; 2000US-0234998.
PR	11-JUL-2000; 2000US-0217487.	PR 26-SEP-2000; 2000US-0235484.
PR	11-JUL-2000; 2000US-0217496.	PR 27-SEP-2000; 2000US-0235484.
PR	14-JUL-2000; 2000US-0218290.	PR 27-SEP-2000; 2000US-0235834.
PR	26-JUL-2000; 2000US-0220963.	PR 29-SEP-2000; 2000US-0235836.
PR	26-JUL-2000; 2000US-0220964.	PR 29-SEP-2000; 2000US-0236327.
PR	14-AUG-2000; 2000US-0224518.	PR 29-SEP-2000; 2000US-0236367.
PR	14-AUG-2000; 2000US-0224519.	PR 29-SEP-2000; 2000US-0236368.
PR	14-AUG-2000; 2000US-0225213.	PR 29-SEP-2000; 2000US-0236369.
PR	14-AUG-2000; 2000US-0225214.	PR 29-SEP-2000; 2000US-0236370.
PR	14-AUG-2000; 2000US-0225266.	PR 02-OCT-2000; 2000US-0236802.
PR	14-AUG-2000; 2000US-0225267.	PR 02-OCT-2000; 2000US-0237037.
PR	14-AUG-2000; 2000US-0225268.	PR 02-OCT-2000; 2000US-0237038.
PR	14-AUG-2000; 2000US-0225270.	PR 02-OCT-2000; 2000US-0237039.
PR	14-AUG-2000; 2000US-0225447.	PR 13-OCT-2000; 2000US-0237040.
PR	14-AUG-2000; 2000US-0225757.	PR 13-OCT-2000; 2000US-0239935.
PR	14-AUG-2000; 2000US-0225758.	PR 20-OCT-2000; 2000US-0240960.
PR	14-AUG-2000; 2000US-0225759.	PR 20-OCT-2000; 2000US-0241221.
PR	18-AUG-2000; 2000US-0226279.	PR 20-OCT-2000; 2000US-0241785.
PR	22-AUG-2000; 2000US-0226691.	PR 20-OCT-2000; 2000US-0241786.
PR	22-AUG-2000; 2000US-0226698.	PR 20-OCT-2000; 2000US-0241787.
PR	22-AUG-2000; 2000US-0227182.	PR 20-OCT-2000; 2000US-0241808.
PR	23-AUG-2000; 2000US-0227009.	PR 20-OCT-2000; 2000US-0241809.
PR	30-AUG-2000; 2000US-0228924.	PR 01-NOV-2000; 2000US-0241826.
PR	01-SEP-2000; 2000US-0229287.	PR 08-NOV-2000; 2000US-0246177.
PR	01-SEP-2000; 2000US-0229343.	PR 08-NOV-2000; 2000US-0246475.
PR	01-SEP-2000; 2000US-0229344.	PR 08-NOV-2000; 2000US-0246476.
PR	01-SEP-2000; 2000US-0229345.	PR 08-NOV-2000; 2000US-0246477.
PR	05-SEP-2000; 2000US-0229509.	PR 08-NOV-2000; 2000US-0246523.
PR	06-SEP-2000; 2000US-0229513.	PR 08-NOV-2000; 2000US-0246524.
PR	06-SEP-2000; 2000US-0230437.	PR 08-NOV-2000; 2000US-0246525.
PR	08-SEP-2000; 2000US-0230438.	PR 08-NOV-2000; 2000US-0246526.
PR	08-SEP-2000; 2000US-0231242.	PR 08-NOV-2000; 2000US-0246527.
PR	08-SEP-2000; 2000US-0231243.	PR 08-NOV-2000; 2000US-0246528.
PR	08-SEP-2000; 2000US-0231244.	PR 08-NOV-2000; 2000US-0246532.
PR	08-SEP-2000; 2000US-0231413.	PR 08-NOV-2000; 2000US-0246609.
PR	08-SEP-2000; 2000US-0231414.	PR 08-NOV-2000; 2000US-0246610.
PR	08-SEP-2000; 2000US-0232080.	PR 17-NOV-2000; 2000US-0249208.
PR	08-SEP-2000; 2000US-0232081.	PR 17-NOV-2000; 2000US-0249210.
PR		PR 17-NOV-2000; 2000US-0249211.
		PR 17-NOV-2000; 2000US-0249212.
		PR 17-NOV-2000; 2000US-0249213.
		PR 17-NOV-2000; 2000US-0249214.
		PR 17-NOV-2000; 2000US-0249215.
		PR 17-NOV-2000; 2000US-0249216.
		PR 17-NOV-2000; 2000US-0249217.
		PR 17-NOV-2000; 2000US-0249218.
		PR 17-NOV-2000; 2000US-0249219.
		PR 17-NOV-2000; 2000US-0249220.
		PR 17-NOV-2000; 2000US-0249221.
		PR 17-NOV-2000; 2000US-0249222.
		PR 17-NOV-2000; 2000US-0249223.
		PR 17-NOV-2000; 2000US-0249224.
		PR 17-NOV-2000; 2000US-0249225.
		PR 17-NOV-2000; 2000US-0249226.
		PR 17-NOV-2000; 2000US-0249227.
		PR 17-NOV-2000; 2000US-0249228.
		PR 17-NOV-2000; 2000US-0249229.
		PR 17-NOV-2000; 2000US-0249230.
		PR 01-DEC-2000; 2000US-0250160.

PR	21-SEP-2000;	2000US-02342223
PR	21-SEP-2000;	2000US-02342274
PR	25-SEP-2000;	2000US-0234997
PR	25-SEP-2000;	2000US-0234998
PR	26-SEP-2000;	2000US-0234584
PR	27-SEP-2000;	2000US-0235834
PR	27-SEP-2000;	2000US-0235836
PR	29-SEP-2000;	2000US-023637
PR	29-SEP-2000;	2000US-0236368
PR	29-SEP-2000;	2000US-0236369
PR	29-SEP-2000;	2000US-0236370
PR	02-OCT-2000;	2000US-0236802
PR	02-OCT-2000;	2000US-0237037
PR	02-OCT-2000;	2000US-0237038
PR	02-OCT-2000;	2000US-0237039
PR	13-OCT-2000;	2000US-0237040
PR	13-OCT-2000;	2000US-0239935
PR	20-OCT-2000;	2000US-0239933
PR	20-OCT-2000;	2000US-0239960
PR	20-OCT-2000;	2000US-0241221
PR	20-OCT-2000;	2000US-0241785
PR	20-OCT-2000;	2000US-0241786
PR	20-OCT-2000;	2000US-0241787
PR	20-OCT-2000;	2000US-0241808
PR	20-OCT-2000;	2000US-0241809
PR	20-OCT-2000;	2000US-0241826
PR	01-NOV-2000;	2000US-0244617
PR	08-NOV-2000;	2000US-0246474
PR	08-NOV-2000;	2000US-0246475
PR	08-NOV-2000;	2000US-0246476
PR	08-NOV-2000;	2000US-0246477
PR	08-NOV-2000;	2000US-0246478
PR	08-NOV-2000;	2000US-0246523
PR	08-NOV-2000;	2000US-0246524
PR	08-NOV-2000;	2000US-0246525
PR	08-NOV-2000;	2000US-0246526
PR	08-NOV-2000;	2000US-0246527
PR	08-NOV-2000;	2000US-0246528
PR	08-NOV-2000;	2000US-0246532
PR	17-NOV-2000;	2000US-0249207
PR	17-NOV-2000;	2000US-0249208
PR	17-NOV-2000;	2000US-0249209
PR	17-NOV-2000;	2000US-0249210
PR	17-NOV-2000;	2000US-0249211
PR	17-NOV-2000;	2000US-0249212
PR	17-NOV-2000;	2000US-0249213
PR	17-NOV-2000;	2000US-0249214
PR	17-NOV-2000;	2000US-0249215
PR	17-NOV-2000;	2000US-0249216
PR	17-NOV-2000;	2000US-0249217
PR	17-NOV-2000;	2000US-0249218
PR	17-NOV-2000;	2000US-0249244
PR	17-NOV-2000;	2000US-0249245
PR	17-NOV-2000;	2000US-0249264
PR	17-NOV-2000;	2000US-0249265
PR	17-NOV-2000;	2000US-0249267
PR	17-NOV-2000;	2000US-0249299
PR	17-NOV-2000;	2000US-0249309
PR	01-DEC-2000;	2000US-0250160
PR	05-DEC-2000;	2000US-0250391
PR	05-DEC-2000;	2000US-0251030
PR	05-DEC-2000;	2000US-0251198
PR	06-DEC-2000;	2000US-0256719
PR	08-DEC-2000;	2000US-0251479
PR	08-DEC-2000;	2000US-0251856
PR	08-DEC-2000;	2000US-0251868
PR	08-DEC-2000;	2000US-0251869
PR	08-DEC-2000;	2000US-0251989

08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Barash SC, Ruben SM;
PI WPI; 2001-457727/49.
XX
XX Isolated polypeptide for treating, preventing and/or prognosing
PT disorders related to the colon and rectum including colorectal cancers
PT and also for testing and detection e.g. diagnosis -
XX
PS Disclosure; SEQ ID NO: 193; 522pp + Sequence Listing; English.
XX
CC The present invention provides the protein and coding sequences of a
CC number of colorectal cancer antigens. These are shown in
CC AA157547-AA157619 and AM38569-AM38641. These can be used in the
CC diagnosis, prevention and treatment of cancer of the colon and/or rectum.
CC CC Note: The present sequence is a colorectal cancer antigen genomic sequence.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 25423 BP; 5518 A; 6899 C; 6921 G; 6085 T; 0 other;

Query Match 4.2%; Score 183.4; DB 22; Length 25423;
Best Local Similarity 81.5%; Pred. No. 8.6e-28;
Matches 242; Conservative 0; Mismatches 41; Indels 14; Gaps 2

QY 2314 tcctctttttaaacttatcatttttttttttgagggtgagtcatacttgtgccacg 2373
Db ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dl 17835 TTATTTTATTATTTATTTATTTATTTGTTTTTGAGATGGAGTCCTGTCTGTGCCTAG 17776
DY 2374 gctgg-----cctgatcttggtcacatgcacctccacttcctgggttcaagcg 2423
Db ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dl 17775 GCTGGAGTGTGTGACCCCATCTTGCTCAGCTGAACCTCACCTCCCGGGTTCAACGGA 17716
QY 2424 ttctctgctcagctcctctaagttagctgggattacaggcgytgcaccacacccccagct 2483
Db ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dl 17715 TTCCTCGCTCAGCCTCCAAAGTAGCTGGGATTAAGAGTGCTGCCACCACCTAGCTAGCT 17656
QY 2484 aatt---taitttagcagatgggtttcactgtattggccaggctggtgaact 2539
Db ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dl 17655 AATTTTGTATTGTGTAGTAGATGGGTTTCCACATGTTGGCCAGGCTAGTCTCGAAT 17596
QY 2540 cctgagctcaagtgatcccacccacacccaacctcagctccccagagtctaggattacaggct 2596
Db ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Dl 17595 CCTAACCTCAGGTGATCTGCCACCCTCTGCCTCCCACAAGTCTAGGATTACAGGCAT 17539

RESULT 7
AAI57657/c
ID AAI57657 standard; DNA; 25424 BP.
XX
XX AAI57657;
XX
DT 19-OCT-2001 (first entry)
XX
DE Human colorectal cancer antigen coding sequence SEQ ID NO: 194.
XX
KW Human; colorectal cancer; colorectal cancer antigen; gene therapy; ds.
XX
OS Homo sapiens.
XX
PN WO200155350-A1.
XX
PD 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US01350.

PR 31-JAN-2000; 2000US-0179065.
 PR 04-FEB-2000; 2000US-0180628.
 PR 24-FEB-2000; 2000US-0184664.
 PR 02-MAR-2000; 2000US-0186350.
 PR 16-MAR-2000; 2000US-0189874.
 PR 17-MAR-2000; 2000US-0190076.
 PR 18-APR-2000; 2000US-0198123.
 PR 19-MAY-2000; 2000US-0205515.
 PR 07-JUN-2000; 2000US-0209467.
 PR 28-JUN-2000; 2000US-0214886.
 PR 30-JUN-2000; 2000US-0215135.
 PR 07-JUL-2000; 2000US-0216647.
 PR 07-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-0217487.
 PR 11-JUL-2000; 2000US-0217496.
 PR 14-JUL-2000; 2000US-0218290.
 PR 26-JUL-2000; 2000US-0220963.
 PR 26-JUL-2000; 2000US-0220964.
 PR 14-AUG-2000; 2000US-0224518.
 PR 14-AUG-2000; 2000US-0224519.
 PR 14-AUG-2000; 2000US-0225213.
 PR 14-AUG-2000; 2000US-0225214.
 PR 14-AUG-2000; 2000US-0225266.
 PR 14-AUG-2000; 2000US-0225267.
 PR 14-AUG-2000; 2000US-0225268.
 PR 14-AUG-2000; 2000US-0225270.
 PR 14-AUG-2000; 2000US-0225447.
 PR 14-AUG-2000; 2000US-0225757.
 PR 14-AUG-2000; 2000US-0225758.
 PR 14-AUG-2000; 2000US-0225759.
 PR 18-AUG-2000; 2000US-0226279.
 PR 22-AUG-2000; 2000US-0226681.
 PR 22-AUG-2000; 2000US-0226868.
 PR 22-AUG-2000; 2000US-0227182.
 PR 23-AUG-2000; 2000US-0227009.
 PR 30-AUG-2000; 2000US-0228924.
 PR 01-SEP-2000; 2000US-0229287.
 PR 01-SEP-2000; 2000US-0229343.
 PR 01-SEP-2000; 2000US-0229344.
 PR 01-SEP-2000; 2000US-0229345.
 PR 05-SEP-2000; 2000US-0229509.
 PR 05-SEP-2000; 2000US-0229513.
 PR 06-SEP-2000; 2000US-0230437.
 PR 06-SEP-2000; 2000US-0230438.
 PR 08-SEP-2000; 2000US-0231242.
 PR 08-SEP-2000; 2000US-0231243.
 PR 08-SEP-2000; 2000US-0231244.
 PR 08-SEP-2000; 2000US-0231413.
 PR 08-SEP-2000; 2000US-0231414.
 PR 08-SEP-2000; 2000US-0232080.
 PR 08-SEP-2000; 2000US-0232081.
 PR 12-SEP-2000; 2000US-0231968.
 PR 14-SEP-2000; 2000US-0232397.
 PR 14-SEP-2000; 2000US-0232398.
 PR 14-SEP-2000; 2000US-0232399.
 PR 14-SEP-2000; 2000US-0232400.
 PR 14-SEP-2000; 2000US-0232401.
 PR 14-SEP-2000; 2000US-0233063.
 PR 14-SEP-2000; 2000US-0233064.
 PR 14-SEP-2000; 2000US-0233065.
 PR 21-SEP-2000; 2000US-0234223.
 PR 21-SEP-2000; 2000US-0234274.
 PR 25-SEP-2000; 2000US-0234997.
 PR 25-SEP-2000; 2000US-0234998.
 PR 26-SEP-2000; 2000US-0235484.
 PR 27-SEP-2000; 2000US-0235834.
 PR 27-SEP-2000; 2000US-0235836.
 PR 29-SEP-2000; 2000US-0236327.
 PR 29-SEP-2000; 2000US-0236367.
 PR 29-SEP-2000; 2000US-0236368.
 PR 29-SEP-2000; 2000US-0236369.
 PR 29-SEP-2000; 2000US-0236370.
 PR 02-OCT-2000; 2000US-0236802.

PR 02-OCT-2000; 2000US-0237037.
 PR 02-OCT-2000; 2000US-0237038.
 PR 02-OCT-2000; 2000US-0237039.
 PR 02-OCT-2000; 2000US-0237040.
 PR 13-OCT-2000; 2000US-0239935.
 PR 13-OCT-2000; 2000US-0239937.
 PR 20-OCT-2000; 2000US-0240960.
 PR 20-OCT-2000; 2000US-0241221.
 PR 20-OCT-2000; 2000US-0241785.
 PR 20-OCT-2000; 2000US-0241786.
 PR 20-OCT-2000; 2000US-0241787.
 PR 20-OCT-2000; 2000US-0241808.
 PR 20-OCT-2000; 2000US-0241809.
 PR 20-OCT-2000; 2000US-0241826.
 PR 01-NOV-2000; 2000US-0244617.
 PR 08-NOV-2000; 2000US-0246474.
 PR 08-NOV-2000; 2000US-0246475.
 PR 08-NOV-2000; 2000US-0246476.
 PR 08-NOV-2000; 2000US-0246477.
 PR 08-NOV-2000; 2000US-0246478.
 PR 08-NOV-2000; 2000US-0246523.
 PR 08-NOV-2000; 2000US-0246524.
 PR 08-NOV-2000; 2000US-0246525.
 PR 08-NOV-2000; 2000US-0246526.
 PR 08-NOV-2000; 2000US-0246527.
 PR 08-NOV-2000; 2000US-0246528.
 PR 08-NOV-2000; 2000US-0246532.
 PR 08-NOV-2000; 2000US-0246609.
 PR 08-NOV-2000; 2000US-0246610.
 PR 08-NOV-2000; 2000US-0246611.
 PR 08-NOV-2000; 2000US-0246613.
 PR 17-NOV-2000; 2000US-0249207.
 PR 17-NOV-2000; 2000US-0249208.
 PR 17-NOV-2000; 2000US-0249209.
 PR 17-NOV-2000; 2000US-0249210.
 PR 17-NOV-2000; 2000US-0249211.
 PR 17-NOV-2000; 2000US-0249212.
 PR 17-NOV-2000; 2000US-0249213.
 PR 17-NOV-2000; 2000US-0249214.
 PR 17-NOV-2000; 2000US-0249215.
 PR 17-NOV-2000; 2000US-0249216.
 PR 17-NOV-2000; 2000US-0249217.
 PR 17-NOV-2000; 2000US-0249218.
 PR 17-NOV-2000; 2000US-0249244.
 PR 17-NOV-2000; 2000US-0249245.
 PR 17-NOV-2000; 2000US-0249264.
 PR 17-NOV-2000; 2000US-0249265.
 PR 17-NOV-2000; 2000US-0249297.
 PR 17-NOV-2000; 2000US-0249299.
 PR 17-NOV-2000; 2000US-0249300.
 PR 01-DEC-2000; 2000US-0250160.
 PR 01-DEC-2000; 2000US-0250391.
 PR 05-DEC-2000; 2000US-0251030.
 PR 05-DEC-2000; 2000US-0251988.
 PR 05-DEC-2000; 2000US-0256719.
 PR 08-DEC-2000; 2000US-0251479.
 PR 08-DEC-2000; 2000US-0251856.
 PR 08-DEC-2000; 2000US-0251868.
 PR 08-DEC-2000; 2000US-0251869.
 PR 08-DEC-2000; 2000US-0251989.
 PR 08-DEC-2000; 2000US-0251990.
 PR 11-DEC-2000; 2000US-0254097.
 PR 05-JAN-2001; 2001US-0259678.

(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM;

WPI; 2001-457727/49.

Isolated polypeptide for treating, preventing and/or prognosing
 disorders related to the colon and rectum including colorectal cancers
 and also for testing and detection e.g. diagnosis -

The present invention provides the protein and coding sequences of a number of colorectal cancer antigens. These are shown in AAI57547-AAI57619 and AAM38563-AAM38641. These can be used in the diagnosis, prevention and treatment of cancer of the colon and/or rectum. The present sequence is a colorectal cancer antigen genomic sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published_pct_sequences](http://pub/published_pct_sequences).

[illegible]

RESULT	8	
AAH92304/C		
ID	AAH92304	standard; DNA; 700 BP.
XX	AAH92304;	
XX	09-OCT-2001	(first entry)
XX	Human inflammatory bowel disease related gene fragment IGR1004a.	
DE	Human; Inflammatory bowel disease; Crohn's disease; ulcerative colitis;	
XX	single nucleotide polymorphism; SNP; chromosome 19p13; paternity test;	
XX	chromosome 5q31-33; forensic test; gene therapy; ds.	
XX	Homo sapiens.	
XX	WO200142511-A2.	
XX	14-JUN-2001.	
DD	11-DEC-2000; 2000WO-US33632.	
XX	10-DEC-1999; 99US-0170257.	
XX	10-APR-2000; 2000US-0196046.	
XX	(WHED) WHITEHEAD INST BIOMEDICAL RES.	
A	(ELLI-) ELLIPSIS BIOTHERAPEUTICS CORP.	
A	Daly M, Hudson TJ, Lander ES, Rioux J, Siminovitch K;	
X	WPI; 2001-367874/38.	
I	Testing for the presence of polymorphisms associated with inflammatory	
R		
R		
R		
T		

PT
XX
XX
PS
PS
XX
XX
CC
CC
CC
CC
CC
CC
CC
CC
CC
CC
XX
SQ

bowel disease, using a hybridization assay -
Disclosure; Page 177-178; 463pp; English.

The present invention describes a method for detecting the presence of polymorphisms associated with inflammatory bowel diseases such as ulcerative colitis and Crohn's disease. The methods can be used to detect the presence of genetic polymorphisms associated with inflammatory bowel disease and correlating their occurrence with disease states. They may be used in this way for phenotypic correlations, forensics, paternity testing, medicine and genetic analysis. The present sequence is a gene containing a polymorphic site described in the exemplification of the invention.

Sequence 700 BP; 216 A; 140 C; 192 G; 136 T; 16 other;

[illegible]

RESULT	9	
AAH03959/c		
ID	AAH03959	standard; cDNA; 883 BP.
XX		
AC	AAH03959;	
XX		
DT	26-JUN-2001	(first entry)
XX		
DE	Human cDNA clone (5'-primer)	SEQ ID NO:794.
XX		
KW	Human; primer; detection;	diagnosis; antisense therapy; gene therapy; ss.
XX		
SS	Homo sapiens.	
XX		
PN	EP1074617-A2.	
XX		
PD	07-FEB-2001.	
XX		
FF	28-JUL-2000;	2000EP-0116126.
XX		
RR	29-JUL-1999;	99JP-0248036.
RR	27-AUG-1999;	99JP-0300253.
RR	11-JAN-2000;	2000JP-0118776.
RR	02-MAY-2000;	2000JP-0183767.
RR	09-JUN-2000;	2000JP-0241899.
XX		
XX		
XA	{HELI-}	HELIX RES INST.
IX	Ota T,	Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
IX	Ishii S,	Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
IX		


```

RESULT 11
AAH02340
ID AAH02340 standard; DNA: 161425 BP.
XX AC
XX AC AAH02340;
XX DT
XX DT 12-JUN-2001 (first entry)
XX XX Human AKAP10 gene SEQ ID NO: 36.
XX DE Database; polymorphism; SNP; human; genetic marker; disease; infection;
XX KW drug response; ds.
XX XX Homo sapiens.
XX OS
XX XX WO200127857-A2.
XX PN
XX PD 19-APR-2001.
XX PF
XX PF 13-OCT-2000; 2000WO-US28413.
XX PR
XX PR 13-OCT-1999; 99US-0159176.
XX PR 10-JUL-2000; 2000US-0217251.
XX PR 10-JUL-2000; 2000US-0217658.
XX PR 19-SEP-2000; 2000US-0863968.
XX XX
XX XX (SEQU-) SEQUENOM INC.
XX PA
XX PI Braun A, Koester H, Van Den Boom D, Ping Y, Rodl C, He L, Chiu N;
XX PI Jurinke C;
XX DR
XX DR WPI; 2001-273865/28.
XX XX
XX PT Producing a database for identifying polymorphic genetic markers,
XX PT comprises obtaining data relating to members of a healthy population
XX PT and entering the information into a database -
XX XX
XX PS Example 3; Page 241-288; 304pp; English.
XX CC The present invention provides a database of human samples obtained from
XX CC healthy individuals which can be used to identify polymorphic genetic
XX CC markers. Data obtained for the database can be used to sort the samples
XX CC by parameters such as age, sex and ethnicity. This is useful in linking
XX CC markers with diseases, susceptibility to infection and drug responses.
XX CC The present sequence was used in an assay to demonstrate the uses of the
XX CC database of the invention.
XX SQ Sequence 161425 BP; 47858 A; 33576 C; 34682 G; 45309 T; 0 other;

Query Match 4.1% Score 181; DB 22; Length 161425;
Best Local Similarity 81.6%; Pred. No. 5.3e-27;
Matches 239; Conservative 0; Mismatches 40; Indels 14; Gaps

Qy 2318 ttttttactcttatcatcttttttttttgagggtggagtcattctggtgccaggcgtg 2377
||||| ||| ||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 123869 ttctttttttctcttttttttttttttttgatggagtctgtctgtccaccaggcta 12392

Qy 2378 gcct-----gatctgggtcactgcgaacctcactctctcggttcaagcgtattct 2427
||| ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 123929 gagtgcagtgcacgatactgcagtcactgcacctccactctctcggttcaagcgtattct 12398

Qy 2428 cctgcctcagcctcctaagttagctgggattacagcgctgtcccaccacacccagctaatt 2487
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 123989 cctgcctcagcctcctaagttagctgggattacagcgctgtcccaccacacccagctaatt 12404

Qy 2488 ----tatttttagcacgagatgggttttctactgtgttgccaggctgggtcgtgaactcctg 2543
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 124049 ttgtatttttagtagaacagggtttcacacatgttgccaggcgggtctctgaactcctg 12410

Qy 2544 agctcaagtgatccaccaacctcagctccccagagtgctaggtatcacaggcct 2596
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 124109 acctcaagtgatccaccaacctcagctccccagagtgctgggattatagcgt 124161

```

[illegible]

Db 124109 acctcagtgatccaccaccactgctcccaaaagtgctgggattataggcgt 124161
 RESULT 13
 AAF58252/C
 ID AAF58252 standard; DNA; 936 BP.
 XX
 AC AAF58252;
 XX
 DT 24-APR-2001 (first entry)
 XX
 DE Oligonucleotide D1835.
 XX
 KW Electron-transfer group; ETM; mismatch; genotyping;
 KW gene expression; ss.
 XX
 OS Synthetic.
 XX
 PN WO200107665-A2.
 XX
 PD 01-FEB-2001.
 XX
 PF 26-JUL-2000; 2000WO-US20476.
 XX
 PR 26-JUL-1999; 99US-0145695.
 PR 17-MAR-2000; 2000US-0190259.
 XX
 PA (CLIN-) CLINICAL MICRO SENSORS INC.
 XX
 PI Umek RM;
 XX
 DR WPI; 2001-159728/16.
 XX
 PT Nucleic acids containing electron-transfer group, useful as labels in
 PT hybridization assays, e.g. for genotyping, allowing repeat analyses on
 XX a single surface
 PS Example 6; Page 127; 159pp; English.
 XX
 CC The present invention relates to a composition comprising two nucleic
 CC acids each containing an electron-transfer group (ETM) having
 CC different redox potentials. The invention is used for electronic
 CC detection of nucleic acids, especially of substitutions (mismatches)
 CC and single-nucleotide polymorphisms, e.g. for genotyping,
 CC monitoring gene expression.
 XX
 SQ Sequence 936 BP; 4 A; 139 C; 10 G; 7 T; 776 other;
 Query Match 4.1%; Score 180.8; DB 22; Length 936;
 Best Local Similarity 0.7%; Pred. No. 8.5e-28;
 Matches 5; Conservative 526; Mismatches 233; Indels 0; Gaps 0;
 Qy 3632 aatgacatcatgttagtcttgggtgcttaactgctgctgggagtgcttctgtatcaca 3691
 Db 780 WWWWWW
 Qy 3692 aagattagagaggactacacatcagggcgtgtatttattgttggattcttagacttc 3751
 Db 720 WWWWWW
 Qy 3752 agaacatgctggataaaatgcagtaataagcaataaacttaagatgctctgttctgt 3811
 Db 660 WWWWWW
 Qy 3812 agccaatacatggtgtatagaccacaaataatggaggatattctccagtagttgaca 3871
 Db 600 WWWWWW
 Qy 3872 ctgtcaccgcttcagctgacagctgctcaaatatttaagaggagcttctgacattcat 3931
 Db 540 WWWWWW

Qy 3932 ttctcattgttttaacttttctctcctcactagtgtaaacacaaatttcaaccagcattca 3991
 Db 480 WWWWWW
 Qy 3992 tgccgaacctataccattctcagtgctcagtgctcagttatcagggatttttattcg 4051
 Db 420 WWWWWW
 Qy 4052 tagtctaatttgcataatcagtcacatgcagtcagtgcttcttggtacacaaagt 4111
 Db 360 WWWWWW
 Qy 4112 ttggcacaataaataattatacaataattctctgtaagaatcaattgctatataatgaatt 4171
 Db 300 WWWWWW
 Qy 4172 taggataaagaatattacaataaagaatattacaataaagaagttattattatttga 4231
 Db 240 WWWWWW
 Qy 4232 agttgtgtgcacaacatacccttctctctgtataaaatttatacacacacaaataaaca 4291
 Db 180 WWWWWW
 Qy 4292 aaagattctgtgaagaatttaattgctctataggaattttaggataagaatttacaataaag 4351
 Db 120 WWWWWW
 Qy 4352 agtattacaataaagaagtgcttatttatttatttataaaataaa 4395
 Db 60 WWWWWW

RESULT 14
 AAF58254/C
 ID AAF58254 standard; DNA; 936 BP.
 XX
 AC AAF58254;
 XX
 DT 24-APR-2001 (first entry)
 XX
 DE Oligonucleotide D1875.
 XX
 KW Electron-transfer group; ETM; mismatch; genotyping;
 KW gene expression; ss.
 XX
 OS Synthetic.
 XX
 PN WO200107665-A2.
 XX
 PD 01-FEB-2001.
 XX
 PF 26-JUL-2000; 2000WO-US20476.
 XX
 PR 26-JUL-1999; 99US-0145695.
 PR 17-MAR-2000; 2000US-0190259.
 XX
 PA (CLIN-) CLINICAL MICRO SENSORS INC.
 XX
 PI Umek RM;
 XX
 DR WPI; 2001-159728/16.
 XX
 PT Nucleic acids containing electron-transfer group, useful as labels in
 PT hybridization assays, e.g. for genotyping, allowing repeat analyses on
 XX a single surface
 PS Example 6; Page 127; 159pp; English.
 XX
 CC The present invention relates to a composition comprising two nucleic
 CC acids each containing an electron-transfer group (ETM) having
 CC different redox potentials. The invention is used for electronic

CC	detection of nucleic acids, especially of substitutions (mismatches)
CC	and single-nucleotide polymorphisms, e.g. for genotyping,
CC	monitoring gene expression.
XX	
SQ	Sequence 936 BP; 4 A; 144 C; 7 G; 5 T; 776 other;

Query Match 4.1%; Score 180.8; DB 22; Length 936;
Best Local Similarity 0.7%; Pred. No. 8.5e-28;
Matches 5; Conservative 526; Mismatches 233; Indels 0; Gaps 0;

QY	3632	aatgacatacatgttagctcttgggttgccttaactgcgtgctggggagtgcttttttgcataca	3691
Db	780	#####	721
QY	3692	aagattagaggagactacacatcaggcgctgaattattgtttgttgatttctagacttc	3751
Db	720	#####	661
QY	3752	agaaactgctggataaaaagtgcagttaatgcacaaattaaactttaagtcattgctgtttgt	3811
Db	660	#####	601
QY	3812	agccaatacatagtgatagaccacaaaaatggagggatattcttcagtagttgaaca	3871
Db	600	#####	541
QY	3872	ctgtcaatcogtltcagctgacagctgctcaaatcatttaagaaggaggtcttcgacattcat	3931
Db	540	#####	481
QY	3932	tttcattgttttacttttgccttcctactagtgtaaacaaaaatttcaaccagcattca	3991
Db	480	#####	421
QY	3992	tgcgaacactataccattcttcagtgctgctgctgcaggtacaggtatcacagggtattttatcg	4051
Db	420	#####	361
QY	4052	tagctcaatttgcgaatacatggcgaatcgcagctagttgactcttgatcacaggt	4111
Db	360	#####	301
QY	4112	ttggcaaaaaaaataataacaaaatactctgtaegaaatcaatttgcgtatctggaaatt	4171
Db	300	#####	241
QY	4172	taggataaaggaaatatttacaataaagatataattacaataaaggagtttattatttgta	4231
Db	240	#####	181
QY	4232	agttgtgtcaacaacaatacacacctttatctctgtaaaatttatatacacacaaaattaa	4291
Db	180	#####	121
QY	4292	aaagattctgtgaagataattggctataatggaaatttaggatagaaatatttacaataaag	4351
Db	120	#####	61
QY	4352	agcttacaataaaggagttgttattatttgaataaaaaaaa	4395
Db	60	#####	17

```

RESULT 15
AAF56257/C
ID AAF58257 standard; DNA; 936 BP.
XX
XX
XX AAF58257;
XX
XX
XX 24-APR-2001 (first entry)
DT
DE Oligonucleotide D1954.

```

XX Electron-transfer group; ETM: mismatch; genotyping;
 KW KW gene expression; ss.
 XX OS Synthetic.

XX	WO200107665-A2.
PN	
XX	
XX	01-FEB-2001.
XX	
XX	
PF	26-JUL-2000; 2000WO-US20476.
XX	
XX	
PR	26-JUL-1999; 99US-0145695.
PR	17-MAR-2000; 2000US-0190259.
XX	
PA	(CLIN-) CLINICAL MICRO SENSORS INC.

XX
PI
Umek RM;

DR WPI; 2001-159728/16.

Nucleic acids containing electron-transfer group, useful as labels in hybridization assays, e.g. for genotyping, allowing repeat analyses on a single surface -

PS Example 6: Page 127; 159pp; English.

The present invention relates to a composition comprising two nucleic acids each containing an electron-transfer group (ETM) having different redox potentials. The invention is used for electronic detection of nucleic acids, especially of substitutions (mismatches) and single-nucleotide polymorphisms, e.g. for genotyping, monitoring gene expression.

Sequence 936 BP; 5 A; 142 C; 7 G; 6 T; 776 other;

Query Match	4.1%	Score 180.8	DB 22	Length 936
Best Local Similarity	0.7%	Pred. NO. 8.5e-28		
Matches	5	Conservative 526	Mismatches 233	Indels 0
Gaps	0			

[illegible]

```

QY 4112 ttggcaaaaaaaatatttaacaaaatttctgtagaatcaattggctatatggaatt 4171
Db 300 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 241
QY 4172 taggataaagaattttacaataaagaattttacaataaagagtttattatttatta 4231
Db 240 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 181
QY 4232 agttgtgtgcaacaacataccctttatctctgtataatttatcacacacaaaattaca 4291
Db 180 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 121
QY 4292 aaagattctgtagaatttaattggctatatggaatttaggatagaaattttacaataaag 4351
Db 120 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 61
QY 4352 agtattacaataaagagttgtttattttgtataaaaaaaa 4395
Db 60 WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW 17

```

Search completed: March 15, 2002, 05:24:41
Job time: 6273 sec